

Main differences between V11.4.1 and V11.5

De Wiki

Aller à : [navigation](#), [rechercher](#)

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This version is essentially due to an update of the lower level libraries [GENIUS](#) V1.10.1, [GENOPUS](#) V2.2 and [PATRIUS](#) V4.6, allowing to improve or correct the previous version.

Sommaire

- [1 Orbit and EarthFeatures consistency](#)
- [2 New reset option in the Copy/Paste menu](#)
- [3 Adding Copy/Paste/... for Integrator panel](#)
- [4 By default numbering for engines and tanks](#)
- [5 Anomaly corrections](#)

Orbit and EarthFeatures consistency

Now there is a consistency management between [Earth features](#) (i.e. Frames configuration) data and initial orbit data: if frames configuration changes, "**Display**" orbit data will change to be consistent with this new configuration (but "**Pivot**" reference data will not be modified).

New reset option in the Copy/Paste menu

Thanks to the new [GENIUS](#) version, there is now a new possibility in the **Copy/Paste/...** menu with the "**Reset**" option that allows to set data to their default values.

Adding Copy/Paste/... for Integrator panel

The menu **Copy/Paste/...** is now available for [Integrator](#) panel.

By default numbering for engines and tanks

The by default numbering starts now at 1 (and no more at 2).

Anomaly corrections

- There were some problems with the fact that, since V11.3, **PSIMU** is able to store in its context file, both "**Pivot**" and "**Display**" data for initial orbital conditions. Indeed:
 - if "**Pivot**" and "**Display**" frames were not the same, **PSIMU** considered orbital parameters coming from the "**Pivot**" data and frame characteristics from the "**Display**" ones which was of course totally wrong.
 - if the user modified the context file not through the **PSIMU GUI**, it had to modify both "**Pivot**" and "**Display**" data in order to keep consistency between both data.
- When modifying constants (for example μ) of initial orbital conditions (even only the units), a conversion was done which was useless.

- When reading the initial orbit, **PSIMU** had not already read [Earth Features characteristics](#). So, in some cases, it exited in an error mode (for example when using H0-n frames) saying that no **EOP** were available even if we did not need them as it used the [\[PATRIUS\]](#) by default configuration.
- When using the **Java API**, due to a [PATRIUS](#) anomaly, if the user needs to define solar panels characteristics, it was mandatory to use the [Vehicle](#) constructor with all parameters and the [VehiculeSurfaceModel](#) including the panels (and not a list of [Facet](#)); also, setters methods had not to be used.
- Anomalies raised due to [\[GENOPUS\]](#) or [\[GENIUS\]](#) widgets used by **PSIMU**. In particular, due to a [\[GENIUS\]](#) anomaly, when using the [Custom plots](#) tab, we can normally display data together from the ephemeris table data but also from the events table. With the previous version, it was no more possible.

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« http://psimu.cnes.fr/index.php?title=Main_differences_between_V11.4.1_and_V11.5&oldid=961 »

Menu de navigation

Outils personnels

- [3.149.254.229](#)
- [Discussion avec cette adresse IP](#)
- [Créer un compte](#)
- [Se connecter](#)

Espaces de noms

- [Page](#)
- [Discussion](#)

Variantes

Affichages

- [Lire](#)
- [Voir le texte source](#)
- [Historique](#)
- [Exporter en PDF](#)

Plus

Rechercher

PSIMU

- [Welcome](#)
- [Quick start](#)
- [News](#)

GUI Mode

- [Overall presentation](#)
- [Initial Orbit](#)
- [Earth features](#)
- [Vehicle](#)
- [Forces](#)
- [Maneuvers](#)
- [Attitude](#)
- [Integrator](#)
- [Events](#)
- [Output](#)
- [Console](#)

Batch mode

- [How to call it](#)

Java interface

- [Basic principle](#)
- [Data initialization](#)
- [Propagation](#)
- [Printing results](#)
- [Customize output variables](#)

Evolutions

- [Main differences between V11.7.3 and V11.7.4](#)
- [Main differences between V11.7.2 and V11.7.3](#)
- [Main differences between V11.7.1 and V11.7.2](#)
- [Main differences between V11.6.2 and V11.7.1](#)
- [Main differences between V11.5 and V11.6.2](#)
- [Main differences between V11.4.1 and V11.5](#)
- [Main differences between V11.4 and V11.4.1](#)
- [Main differences between V11.3 and V11.4](#)
- [Main differences between V11.2 and V11.3](#)
- [Main differences between V11.1 and V11.2](#)
- [Main differences between V11.0 and V11.1](#)

Training

- [Tutorials package for V11.7.x](#)
- [Tutorials package for V11.6](#)
- [Tutorials package for V11.5](#)
- [Tutorials package for V11.4](#)
- [Tutorials package for V11.3](#)
- [Tutorials package for V11.2](#)
- [Tutorials package for V11.0](#)

Links

- [CNES freeware server](#)

Outils

- [Pages liées](#)
- [Suivi des pages liées](#)
- [Pages spéciales](#)
- [Adresse de cette version](#)
- [Information sur la page](#)
- [Citer cette page](#)

- Dernière modification de cette page le 16 février 2021 à 08:44.
- [Politique de confidentialité](#)
- [À propos de Wiki](#)
- [Avertissements](#)

